

zenith



SERVICE MANUAL

Product Type: LCD TV
Chassis: ML-024B
Manual Series:
Manual Part #:
Model Line:
Product Year: 2003

Model Series:

L20V26C

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Zenith Electronics Corporation
201 James Record Road
Huntsville, Alabama 35824-1513

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PRODUCT SAFETY

IMPORTANT SAFETY NOTICE

This manual was prepared for use only by properly trained audiovisual service technicians. When servicing this product, under no circumstances should the original design be modified or altered without permission from Zenith Electronics Corporation. All components should be replaced only with types identical to those in the original circuit and their physical location, wiring, and lead dress must conform to original layout upon completion of repairs. If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it only with the factory specified fuse type and rating. When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB. Always keep wires away from high voltage or high temperature parts.

Special components are also used to prevent shock and fire hazard. These components are indicated by the letter "x" included in their component designators and are required to maintain safe performance. No deviations are allowed without prior approval by Zenith Electronics Corporation. Service work should be performed only after you are thoroughly familiar with these safety checks and servicing guidelines.

Circuit diagrams may occasionally differ from the actual circuit used. This way, implementation of the latest safety and performance improvement changes into the set is not delayed until the new service literature is printed.

CAUTION: Do not attempt to modify this product in any way.

Never perform customized installations without manufacturer's approval.

Unauthorized modifications will not only void the warranty, but may lead to property damage or user injury.

GENERAL GUIDANCE

An Isolation Transformer should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating to protect against personal injury from electrical shocks. It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

Before returning the receiver to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

LEAKAGE CURRENT COLD CHECK (ANTENNA COLD CHECK)

With the instrument's AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together, and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc. If the exposed metallic part has a return path to the chassis, the measured resistance should be between $1M\Omega$ and $5.2M\Omega$. When the exposed metal has no return path to the chassis the reading must be infinite. Any other abnormality that exists must be corrected before the receiver is returned to the customer.

ELECTROSTATICALLY SENSITIVE DEVICES

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on the body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as an ESD mat, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material.)
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise, seemingly harmless motion, such as the brushing together of your clothing or the lifting of your foot from a carpeted floor, can generate static electricity sufficient to damage an ES device.)

REGULATORY INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna; Increase the separation between the equipment and receiver; Connect the equipment into an outlet on a circuit different from that to which the receiver is connected; Consult the dealer or an experienced radio/TV technician for help.

The responsible party for this device's compliance is:

Zenith Electronics Corporation
201 James Record Road
Huntsville, AL 35824, USA
Digital TV Hotline: 1-800-243-0000

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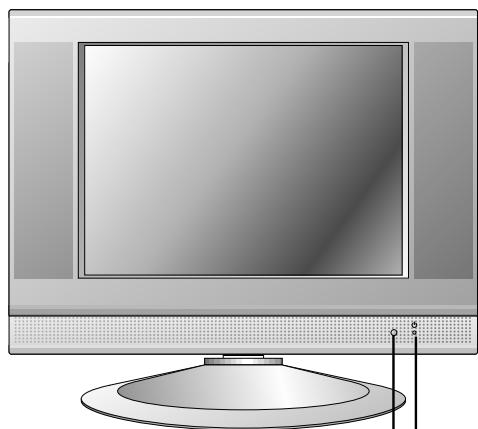
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SPECIFICATIONS

Model	L20V26C
Horizontal size (inch)	22.68
Height (inch)	18.64
Thickness (inch)	3.33
Weight (pound)	22.05
Power requirements	DC 15V/4.5A
Television system	NTSC
Television channels	VHF : 2 ~ 13, UHF : 14 ~ 69 Cable : 01 ~ 125
Display	LCD Panel
Power consumption	70 W
External antenna impedance	75 Ω
Audio output	3.0W + 3.0W
Speaker outputs	4 Ω X 2
External input ports	VIDEO input port set 1 VIDEO output port set 1 Component (480i/480p) input set 1 S-VIDEO input 1 Headphone jack 1 Power DC 15V input 1 Antenna input 1
Adapter (DC power)	In : AC 100-240V ~ 1.6A-0.7A 50/60Hz Out : DC 15V, 4.5A
* CAUTION : For use only with Model No. SAD7015SE AC Adapter, manufactured by H & E CO., LTD.	
Power supply cordset	Standard North America three wire earth-grounding with flexible cord SJT type or higher type.
* CAUTION : If replacement becomes necessary, replace it with an exact duplicate. Contact any Zenith authorized service center.	

DESCRIPTION OF CONTROLS

Front of the TV

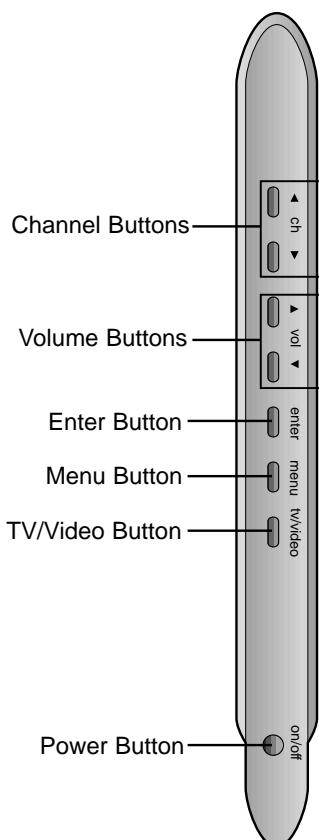


Remote Control Sensor

Power/Standy indicator

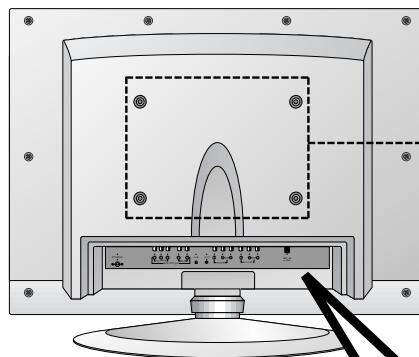
Illuminates brightly when the TV is in standby mode. Dims when the TV is switched on.

Side Control panel



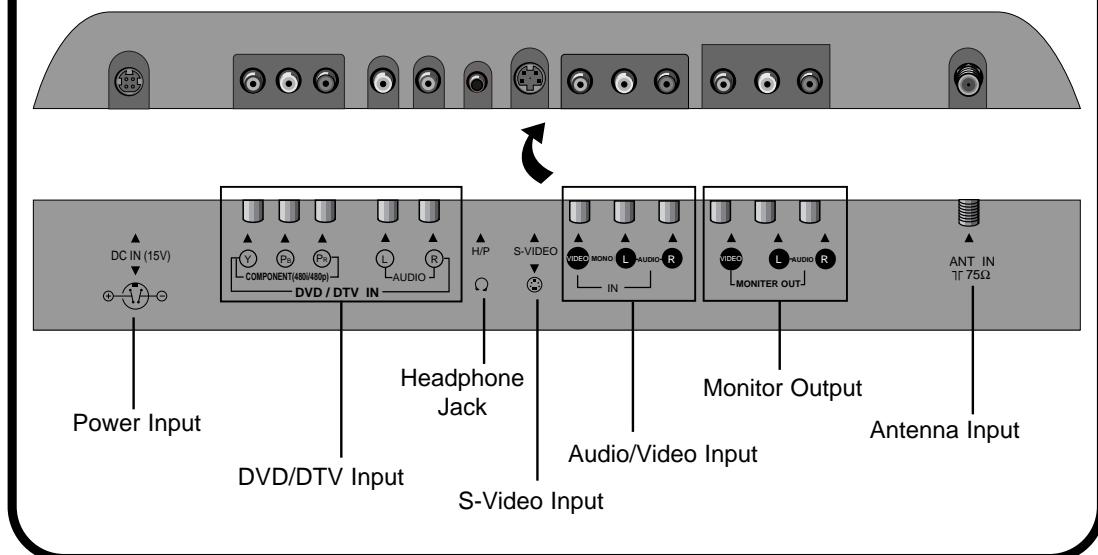
DESCRIPTION OF CONTROLS

Back of the TV



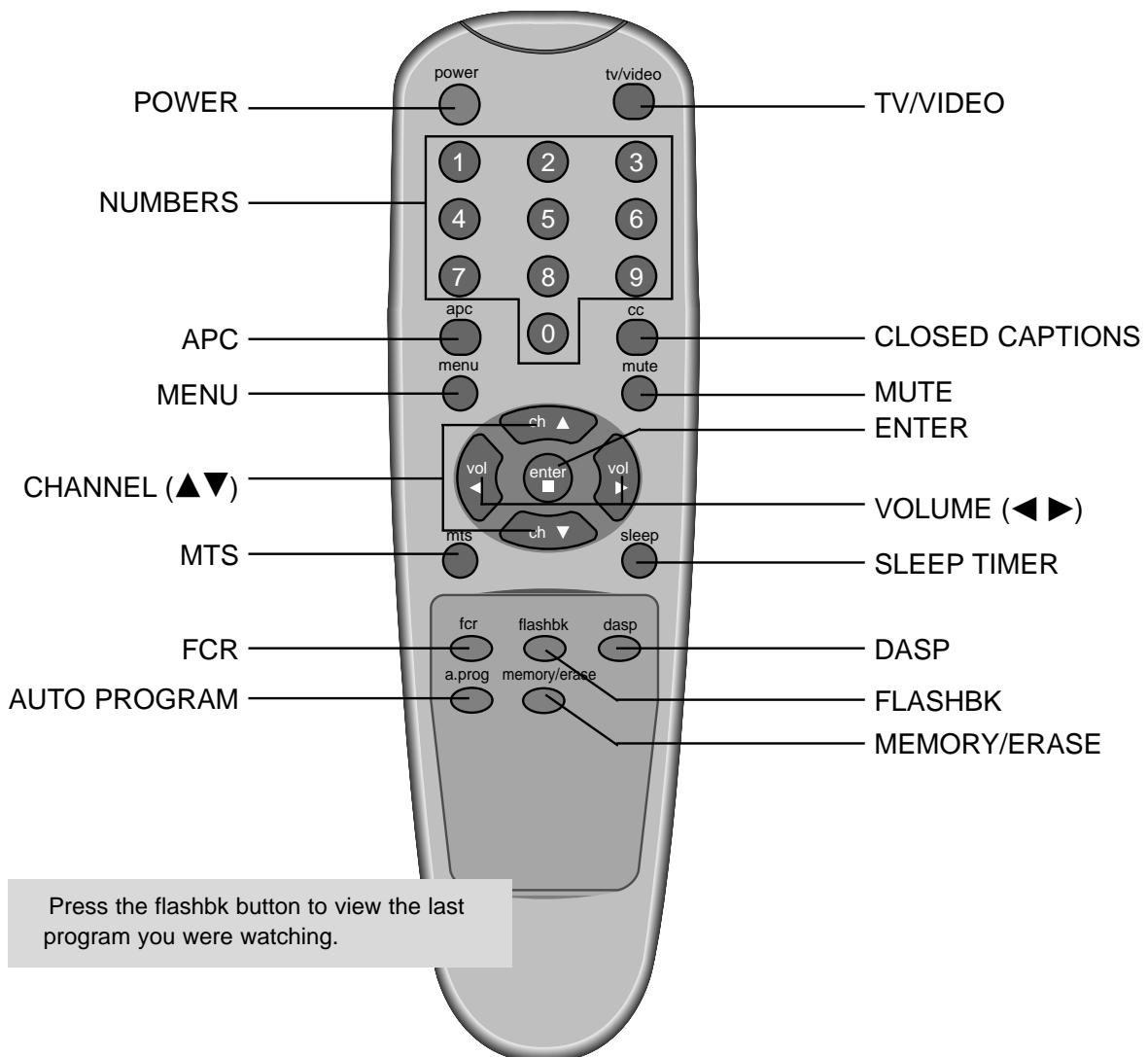
These 4 threaded holes are available for attaching the bracket provided with the accessory wall-mount installation kit.

Connection Panel



DESCRIPTION OF CONTROLS

Remote Control Buttons



ADJUSTMENT INSTRUCTIONS

1. Application Object

This instruction is for the application to the LCD TV, ML-024B/C.

2. Notes

- (1) Connect the power correctly, then start the adjustment.
- (2) The adjustments must be performed in the correct sequence.
- (3) The adjustments must be performed in the circumstance of $25\pm5^{\circ}\text{C}$ of temperature and $65\pm10\%$ of relative humidity.
- (4) The set must be operated for 15 minutes prior to adjustment.

- 'Heat Run' must be performed with the full white signal or TV noise signal.
- The time for 'Heat Run' can be changed due to production changes.
- Condition of Line Test : Standard color signal - $65\pm1\text{dBuV}$

3. Y.Pb.Pr LEVEL Adjustment

Only ML-024B

3-1. Required Test Equipment

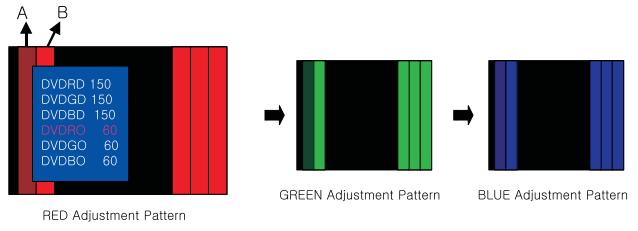
- (1) 802F(QUANTUM DATA: Video Test Generator)
- (2) Remote control for adjustment

3-2. Preparation for Adjustment

- (1) Adjustment Pattern: R/G/B Color Bar Adjustment Pattern
(Refer to Fig. 1)

3-3. Adjustment

- (1) Set with Component mode paragraph exchange.
- (2) Setting the signal Format of signal equipment is to be 480P.
- (3) Input the Component Jack of the Set with DTV output (Y.Pb.Pr) of adjustment equipment.
- (4) With lower part Fig. 1 the same Pattern does to come out in the Set.
- (5) Enter the adjustment mode using IN-START Key of Adjust Remocon.
- (6) Enter the Component adjustment mode with Fig. 1.
- (7) From R Color Bar adjustment Pattern value of the DVDRO using Vol Key of Adjust Remocon adjust disappear A Pattern of Fig. 1. (When reduces the Data value, Pattern of the A comes to dawn)
- (8) When the adjustment of the DVDRO is completed, input adjustment Pattern in G --> B order and adjust DVDGO --> DVDBO and adjust the Pattern of the A not to be visible.
- (9) When the adjustment is completed in DVDRO --> DVDGO --> DVDBO order, adjust adjustment data of the DVDRO to be -3 Step and memory adjustment data using ENTER of Adjust Remocon.
- (10) After adjustment is completed, exit the adjustment mode using EXIT Key of Adjust Remocon.

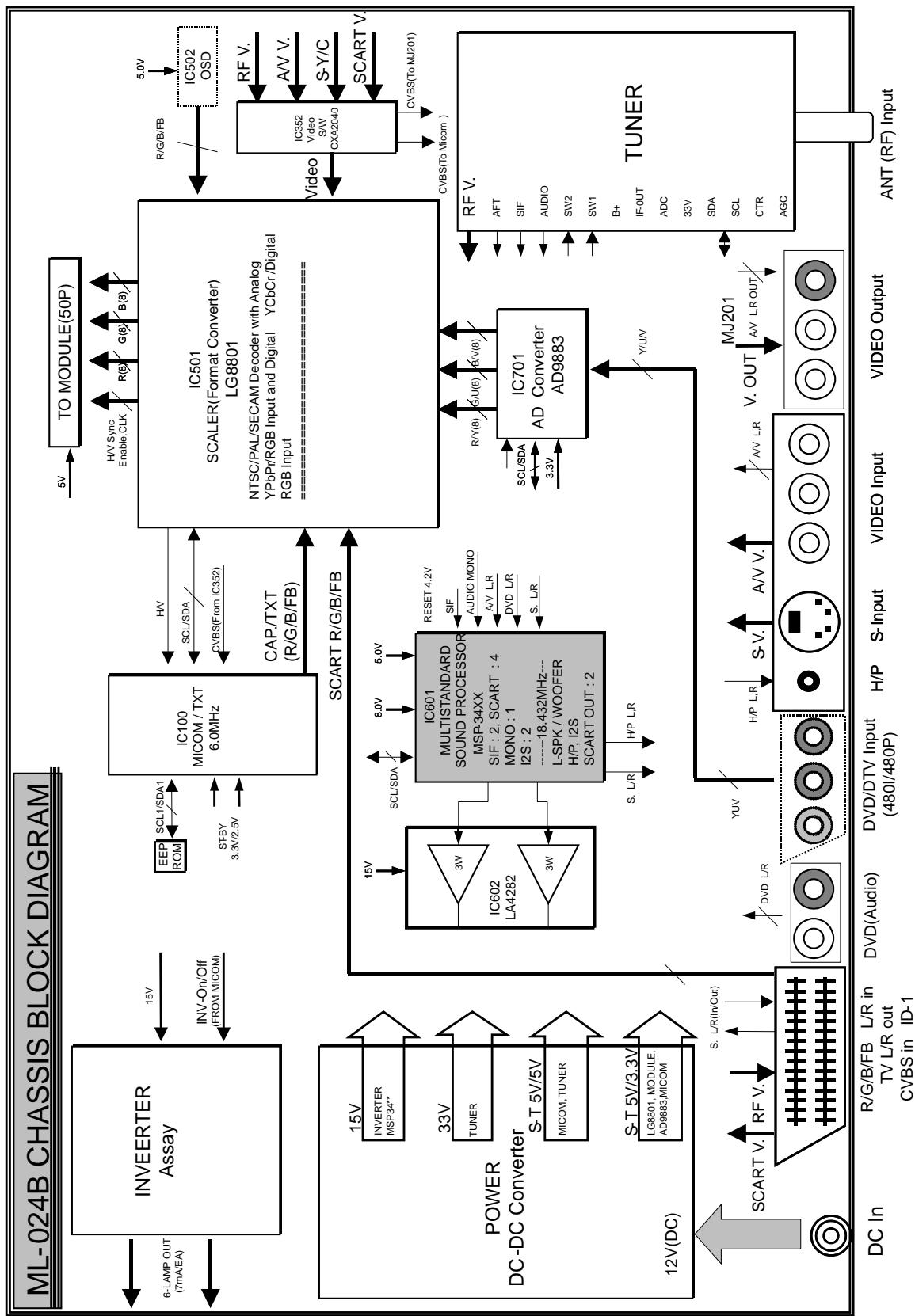


(Fig. 1)

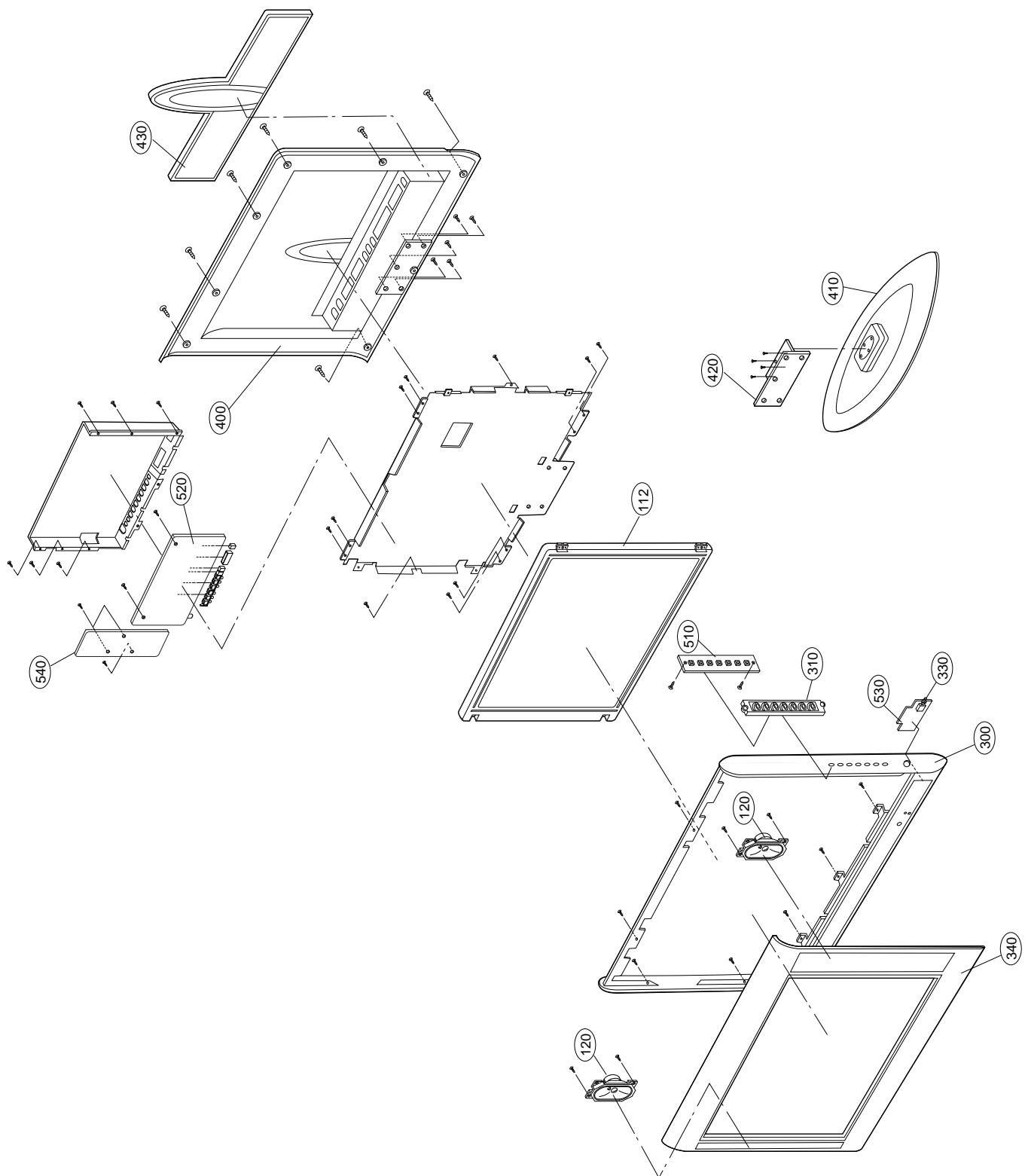
4. Option

No.	Item	Specification	Remark
1	COMPO	0	Component input mode 0 : not ready 1 : ready
2	3SYS	0	Video input applicable system 0 : NTSC-M(North America) 1 : NTSC-M & PAL-M/N multi(South America)
3	BLUEB	1	No - signal Video mode 0 : Black-Back 1 : Blue-Back

BLOCK DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
112	6306V20002A	LCD MODULE,V201V1-T01 VGA CHIMEI TFT COLOR
120	120-D44E	SPEAKER,FULLRANGE G705/080701A 4OHM 3/5W 80DB 70X50MM
300	3091V00A20Q	CABINET ASSEMBLY,RU-20LA30 STEREO MF002A SKD ZENITH
310	5020V00552H	BUTTON,CONTROL RU-15LA31 HF-380 7 KEY DARK GRAY
330	5020V00553E	BUTTON,POWER RU-15LA31 NON 1 KEY SET
340	3091V00A19G	CABINET ASSEMBLY,RU-20LA30 ZENITH
400	3809V00373B	BACK COVER ASSEMBLY,RM-20LA33 NON CMO SKD
410	4811V00019U	BRACKET ASSEMBLY,STAND RM-20LA33 ML024B ZENITH SKD
420	4950V00081B	METAL,SUPPORTER SUS HINGE FIXER
430	3550V00202A	COVER,A/V ABS RN-20LA30
510	6871VSMA74A	PCB ASSEMBLY,SUB MF-002A CTL ASSY RE/RL/RN-20LA30
520	6871VMMQ52A	PCB ASSEMBLY,MAIN ML-024B PCB ASSY MAIN
530	6871VSMV36D	PCB ASSEMBLY,SUB POWER ML024B RM-20LA33 SKD POWER ASSY
540	6633VA0003P	INVERTER ASSEMBLY,15V NON ECT FRONTEC 6633VA0003JVE

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN : Ceramic	RD : Carbon Film
CQ : Polyester	RS : Metal Oxide Film
CE : Electrolytic	RN : Metal Film
	RF : Fusible

RUN DATE : 2003.7.12

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
IC					
IC100	0IZZVC0077A	M37272E8A(OTP) DIP 52P DIP	D601	0DD181009AB	KDS181 85V 300MA
IC101	0IAL241610B	AT24C16A10PI2.7 8PIN DIP ST EEPROM	D602	0DD181009AB	KDS181 85V 300MA
IC102	0IFA752700A	KA75270Z 3 TP RESET IC MC007	D801	0DD181009AB	KDS181 85V 300MA
IC351	0IMCRFA010A	KA7809R 2P DPAK, R/TP REGULATOR IC	D802	0DD100009AM	EU1ZV(1) TP SANKEN
IC352	0ISO204000A	CXA2040AQ 32P,QFP BK IIC BUS VIDEO	D807	0DD181009AB	KDS181 85V 300MA
IC501	0IMCRTW001B	LG8801H 160P SCALER+VIDEO DECO	D896	0DD410009AA	SCHOTTKY,BAT 41 TP
IC502	0ICTMMO004A	SC786108DWR2 16 R/TP OSD	D897	0DD410009AA	SCHOTTKY,BAT 41 TP
IC601	0IMCRMN014A	MSP3440G QA B8 V3 80 QFP TRAY SOUND	D898	0DD410009AA	SCHOTTKY,BAT 41 TP
IC602	0ISA428200A	LA4282 12S 2CHX10W AUDIO AMP	D899	0DD410009AA	SCHOTTKY,BAT 41 TP
IC603	0IKE704200J	KIA7042AF SOT89 TP 4.2V	LED1	0DL200000CA	LED,SAM5670(DL2LRG) BK YGREEN
IC604	0IMCRFA009A	KA78M08RTM 2P DPAK	ZD202	0DZRM00178A	ZENERS,UDZS TE17 5.1B
IC701	0IMCRAD002A	AD9883A 80P TQFP R/TP DIGITAL BOARD	ZD203	0DZRM00178A	ZENERS,UDZS TE17 5.1B
IC801	0ITC786000A	SI786 28SSOP DUALOUTPUT POWER CONTROLLER	ZD204	0DZRM00178A	ZENERS,UDZS TE17 5.1B
IC905	0ISA428200A	LA4282 12S 2CHX10W AUDIO AMP	ZD220	0DZRM00178A	ZENERS,UDZS TE17 5.1B
Q101	0IFA270000A	2N7000TA TO92, 3P 60V/0.2A	ZD221	0DZRM00178A	ZENERS,UDZS TE17 5.1B
Q102	0IFA270000A	2N7000TA TO92, 3P 60V/0.2A	ZD222	0DZRM00178A	ZENERS,UDZS TE17 5.1B
TRANSISTOR					
IC2	0TF492509AA	SI4925DY 30V 6.1A SO8	C10	0CE227DF618	220UF STD 16V M
IC802	0TFVI80001A	SI4808DY R/TP SO8 30V 7.5A	C101	0CE107BF618	100UF KME 16V M
IC803	0TFVI80001A	SI4808DY R/TP SO8 30V 7.5A	C113	0CE107BF618	100UF KME 16V M
IC804	0TFVI80005A	SI4963DY R/TP SO8 20V 6.2A	C209	0CE476DF618	47UF STD 16V M
IC805	0TF492509AA	SI4925DY 30V 6.1A SO8	C211	0CE106DF618	10UF STD 16V M
Q1	0TR387500AA	CHIP 2SC3875S(ALY) KEC	C225	0CE106DF618	10UF STD 16V M
Q100	0TR387500AA	CHIP 2SC3875S(ALY) KEC	C226	0CE106DF618	10UF STD 16V M
Q1101	0TR387500AA	CHIP 2SC3875S(ALY) KEC	C254	0CE105BK618	1UF KME 50V M
Q1102	0TR387500AA	CHIP 2SC3875S(ALY) KEC	C255	0CE105BK618	1UF KME 50V M
Q1103	0TR387500AA	CHIP 2SC3875S(ALY) KEC	C278	0CE225DK618	2.2UF STD 50V 20%
Q200	0TR387500AA	CHIP 2SC3875S(ALY) KEC	C281	0CE105BK618	1UF KME 50V M
Q201	0TR387500AA	CHIP 2SC3875S(ALY) KEC	C282	0CE105BK618	1UF KME 50V M
Q202	0TR387500AA	CHIP 2SC3875S(ALY) KEC	C289	0CE104DK618	0.1000UF STD 50V M
Q353	0TR150400BA	CHIP 2SA1504S(ASY) KEC	C351	0CE227DF618	220UF STD 16V M
Q354	0TR150400BA	CHIP 2SA1504S(ASY) KEC	C353	0CE475DK618	4.7UF STD 50V 20%
Q403	0TR150400BA	CHIP 2SA1504S(ASY) KEC	C354	0CE106DF618	10UF STD 16V M
Q406	0TR387500AA	CHIP 2SC3875S(ALY) KEC	C356	0CE106DF618	10UF STD 16V M
Q502	0TR150400BA	CHIP 2SA1504S(ASY) KEC	C357	0CE106DF618	10UF STD 16V M
Q510	0TR150400BA	CHIP 2SA1504S(ASY) KEC	C361	0CE477BF618	470UF KME 16V M
Q604	0TR150400BA	CHIP 2SA1504S(ASY) KEC	C362	0CE107DF618	100UF STD 16V M
Q605	0TR150400BA	CHIP 2SA1504S(ASY) KEC	C364	0CE336DF618	33UF STD 16V M
Q651	0TR150400BA	CHIP 2SA1504S(ASY) KEC	C380	0CE105BK618	1UF KME 50V M
Q801	0TR387500AA	CHIP 2SC3875S(ALY) KEC	C381	0CE106DF618	10UF STD 16V M
Q802	0TR150400BA	CHIP 2SA1504S(ASY) KEC	C403	0CE476DH618	47UF STD 25V 20%
Q803	0TR387500AA	CHIP 2SC3875S(ALY) KEC	C404	0CE108DD618	1000UF STD 10V M
DIODE					
D100	0DD181009AB	KDS181 85V 300MA	C408	0CE106DK618	10UF STD 50V M
			C412	0CE105DK618	1UF STD 50V M
			C499	0CE476DF618	47UF STD 16V M
			C501	0CE107DF618	100UF STD 16V M

REPLACEMENT PARTS LIST

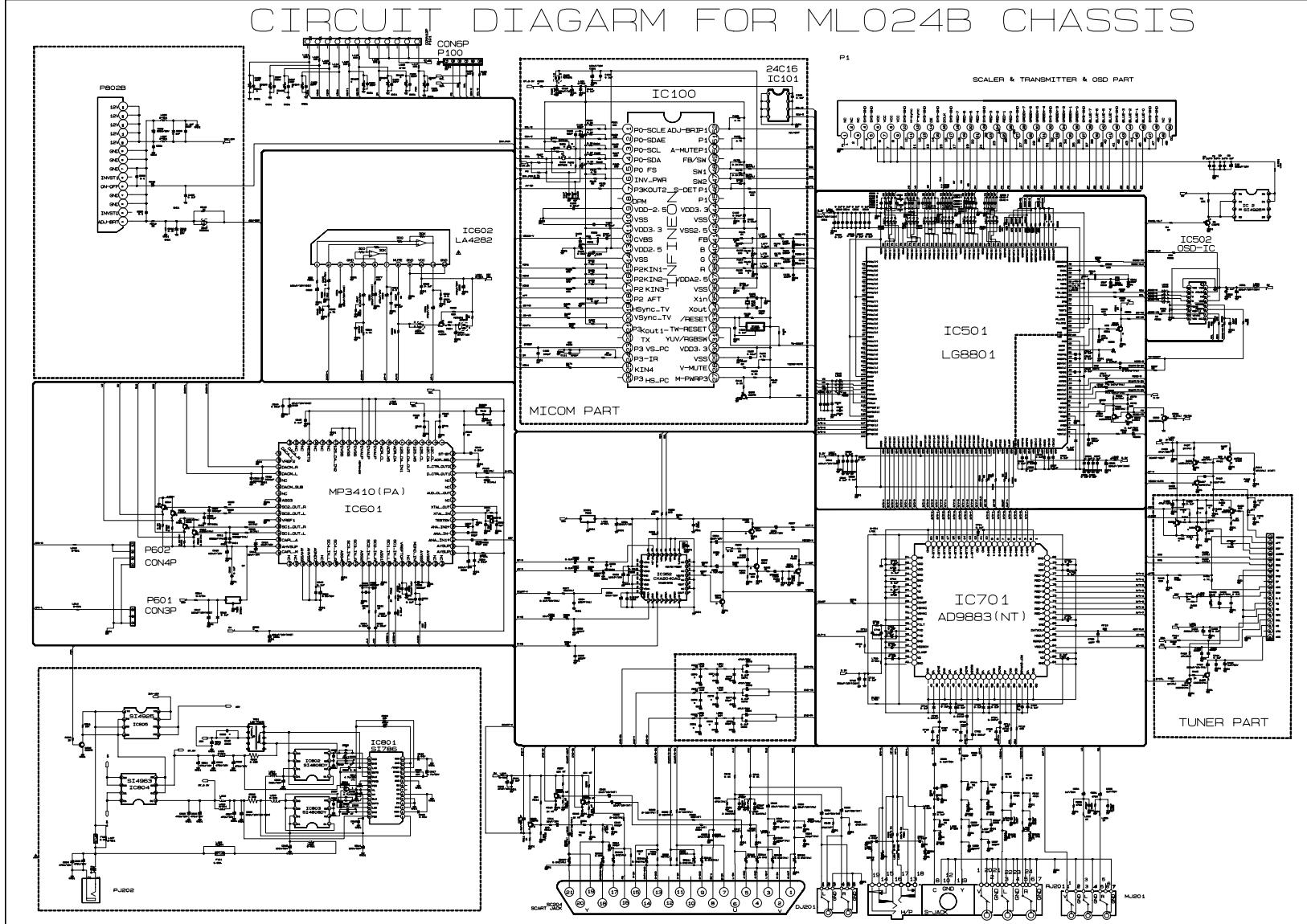
LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C523	0CE104DK618	0.1000UF STD 50V M	DJ202	380-336E	JACK,RCA WA6013E 1P
C526	0CE107DF618	100UF STD 16V M	MJ201	6613V00004P	JACK ASSY,PJ6054P 3P
C541	0CE107DF618	100UF STD 16V M	P901	6612VJH008D	JACK,RCA PJ6063D DVD IN 3P
C564	0CE476DH618	47UF STD 25V 20%	PJ202	6612VAH001C	JACK,PHONE DC003 4PIN POWER
C573	0CE476DH618	47UF STD 25V 20%	RJ201	6613V00008F	JACK ASSY,PMJ014F E/P(ST)+SVHS+3P
C578	0CE476DH618	47UF STD 25V 20%	SC204A	6612VJH008D	JACK,RCA PJ6063D DVD IN 3P
C581	0CE107DF618	100UF STD 16V M	RESISTOR		
C601	0CE477BF618	470UF KME 16V M	L502	0RRZVTA001A	MNR14E0AJ101 R OHM 100 OHM 5%
C602	0CE477BF618	470UF KME 16V M	L503	0RRZVTA001A	MNR14E0AJ101 R OHM 100 OHM 5%
C605	0CE107BF618	100UF KME 16V M	L504	0RRZVTA001A	MNR14E0AJ101 R OHM 100 OHM 5%
C613	0CE106DF618	10UF STD 16V M	L505	0RRZVTA001A	MNR14E0AJ101 R OHM 100 OHM 5%
C614	0CE106DF618	10UF STD 16V M	L506	0RRZVTA001A	MNR14E0AJ101 R OHM 100 OHM 5%
C616	0CE107DF618	100UF STD 16V M	L507	0RRZVTA001A	MNR14E0AJ101 R OHM 100 OHM 5%
C617	0CE107BH618	100UF KME 25V M	L516	0RRZVTA001A	MNR14E0AJ101 R OHM 100 OHM 5%
C620	0CE335DK618	3.3UF STD 50V 20%	L518	0RRZVTA001A	MNR14E0AJ101 R OHM 100 OHM 5%
C621	0CE107BF618	100UF KME 16V M	R200	0RD1000H609	100 OHM 1/2 W 5.00%
C624	0CK224DF56A	220000PF 2012 16V 10%	R201	0RD1000H609	100 OHM 1/2 W 5.00%
C625	0CK224DF56A	220000PF 2012 16V 10%	R604	0RF0561K607	5.6 OHM 2 W 5.00%
C626	0CK224DF56A	220000PF 2012 16V 10%	R803	0RHZVTA001A	0.025 OHM 1W 2%
C627	0CK224DF56A	220000PF 2012 16V 10%	R805	0RHZVTA001A	0.025 OHM 1W 2%
C629	0CE107DF618	100UF STD 16V M	SWITCH		
C633	0CE107DF618	100UF STD 16V M	SW1101	140-313A	SWITCH,TACT 2LEAD 100G
C643	0CE476BF618	47UF KME TYPE 16V 20%	SW1101	140-275B	SWITCH,PUSH JDPB21NA 30V 0.3A
C646	0CE225DK618	2.2UF STD 50V 20%	SW1102	140-313A	SWITCH,TACT 2LEAD 100G
C647	0CE225DK618	2.2UF STD 50V 20%	SW1103	140-313A	SWITCH,TACT 2LEAD 100G
C648	0CQ1031N509	0.01U 100V K	SW1104	140-313A	SWITCH,TACT 2LEAD 100G
C649	0CQ1031N509	0.01U 100V K	SW1105	140-313A	SWITCH,TACT 2LEAD 100G
C651	0CE107BH618	100UF KME 25V M	SW1106	140-313A	SWITCH,TACT 2LEAD 100G
C652	0CE107BF618	100UF KME 16V M	SW1107	140-313A	SWITCH,TACT 2LEAD 100G
C654	0CE476BK618	47UF KME 50V M	FILTER & CRYSTAL		
C655	0CE477DH618	470UF STD 25V M	L101	6210TCE001G	FILTER,EMC HH1M3216501
C711	0CK823DK56A	82000PF 2012 50V 10%	L106	6210TCE001G	FILTER,EMC HH1M3216501
C713	0CE107DF618	100UF STD 16V M	L107	6210TCE001G	FILTER,EMC HH1M3216501
C800	0CE337ZF638	330UF SEP 16V 20%	L1101	6210TCE001A	FILTER,EMC HB1S2012080JT
C801	0CE476BK618	47UF KME 50V M	L119	6210TCE001A	FILTER,EMC HB1S2012080JT
C802	0CE477BF618	470UF KME 16V M	L200	6210TCE001A	FILTER,EMC HB1S2012080JT
C803	0CE477BF618	470UF KME 16V M	L201	6210TCE001A	FILTER,EMC HB1S2012080JT
C804	0CE477BF618	470UF KME 16V M	L202	6210TCE001A	FILTER,EMC HB1S2012080JT
C805	0CE477BF618	470UF KME 16V M	L204	6210TCE001A	FILTER,EMC HB1S2012080JT
C806	0CE477BF618	470UF KME 16V M	L205	6210TCE001A	FILTER,EMC HB1S2012080JT
C807	0CE477BF618	470UF KME 16V M	L206	6210TCE001G	FILTER,EMC HH1M3216501
C808	0CE227DH618	220UF STD 25V M	L207	6200JB8010L	FILTER,EMC MLB2012091000LN2
C814	0CE107DH618	100UF STD 25V M	L213	6210TCE001G	FILTER,EMC HH1M3216501
C815	0CE107DH618	100UF STD 25V M	L214	6210TCE001G	FILTER,EMC HH1M3216501
C817	0CE475DK618	4.7UF STD 50V 20%	L296	6200JB8010L	FILTER,EMC MLB2012091000LN2
C820	0CE227DH618	220UF STD 25V M	L297	6200JB8010L	FILTER,EMC MLB2012091000LN2
C834	0CE477BH618	470UF KME TYPE 25V 20%	L351	6210TCE001G	FILTER,EMC HH1M3216501
C835	0CE477BH618	470UF KME TYPE 25V 20%	L400	6210TCE001G	FILTER,EMC HH1M3216501
JACK					
DJ201	380-336F	JACK,RCA WA6013E 1P			

REPLACEMENT PARTS LIST

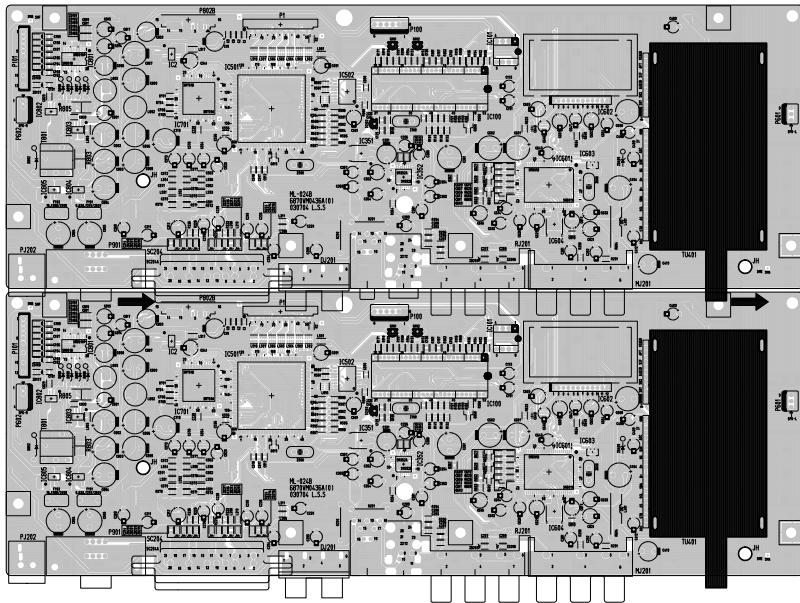
LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
L402	6210TCE001G	FILTER,EMC HH1M3216501			
L501	6210TCE001G	FILTER,EMC HH1M3216501			
L515	6210TCE001G	FILTER,EMC HH1M3216501			
L517	6210TCE001G	FILTER,EMC HH1M3216501			
L580	6210TCE001A	FILTER,EMC HB1S2012080JT			
L600	6210TCE001G	FILTER,EMC HH1M3216501			
L602	6210TCE001G	FILTER,EMC HH1M3216501			
L603	6210TCE001G	FILTER,EMC HH1M3216501			
L701	6210TCE001G	FILTER,EMC HH1M3216501			
L702	6210TCE001G	FILTER,EMC HH1M3216501			
L703	6210TCE001G	FILTER,EMC HH1M3216501			
L800	6210TCE001G	FILTER,EMC HH1M3216501			
L801	6210TCE001G	FILTER,EMC HH1M3216501			
L804	6210TCE001G	FILTER,EMC HH1M3216501			
L805	6210TCE001G	FILTER,EMC HH1M3216501			
L806	6210TCE001G	FILTER,EMC HH1M3216501			
L807	6210TCE001G	FILTER,EMC HH1M3216501			
L808	6210TCE001G	FILTER,EMC HH1M3216501			
L99	6210TCE001G	FILTER,EMC HH1M3216501			
R1108	6200JB8010L	FILTER,EMC MLB2012091000LN2			
R1109	6200JB8010L	FILTER,EMC MLB2012091000LN2			
R1110	6200JB8010L	FILTER,EMC MLB2012091000LN2			
R1111	6200JB8010L	FILTER,EMC MLB2012091000LN2			
R1112	6200JB8010L	FILTER,EMC MLB2012091000LN2			
R226	6200JB8010L	FILTER,EMC MLB2012091000LN2			
R228	6200JB8010L	FILTER,EMC MLB2012091000LN2			
R229	6200JB8010L	FILTER,EMC MLB2012091000LN2			
R230	6200JB8010L	FILTER,EMC MLB2012091000LN2			
R231	6200JB8010L	FILTER,EMC MLB2012091000LN2			
R505	6210TCE001A	FILTER,EMC HB1S2012080JT			
Z100	156-A01L	RESONATOR,CRYSTAL HC49U 6.000MHZ			
Z500	156-A02X	RESONATOR,CRYSTAL HC49U 27.000MHZ			
Z600	156-A02M	RESONATOR,CRYSTAL HC49U 18.432MHZ			
MISCELLANEOUS					
F101	0FS6300B84B	FUSE,SLOW BLOW 630MA 250V			
F102	0FS1001B84B	FUSE,SLOW BLOW 1000MA 250V			
L401	OLA0272K139	INDUCTOR,27UH K			
L803	6140VB0004A	COIL,CHOKE 9.5UH 1UEWPHY			
P1101	6631V20014D	CONNECTOR ASSEMBLY,12P 2.0MM			
P1102	387-A07A	CONNECTOR ASSEMBLY,7P 2.5MM			
PA1101	6726VV0006D	REMOTE CONTROLLER RECEIVER,38.0KHZ			
T801	6170VTCA30A	TRANSFORMER,SMPS[COIL] EPC 13Z 320UH			
TU401	6700VNF019E	TUNER,TAFHH001P LG NTSC FS			
ACCESSORIES					
A1	3828VA0359Q	MANUAL,OWNERS RM20LA33 ZENITH			
A2	6710V00082M	REMOTE CONTROLLER			
A3	6410VUH003A	POWER CORD,PS204001 1800MM			
A4	6634B00043J	ADAPTER,ACDC SAD7015SE 15V 4.5A			

zenith 

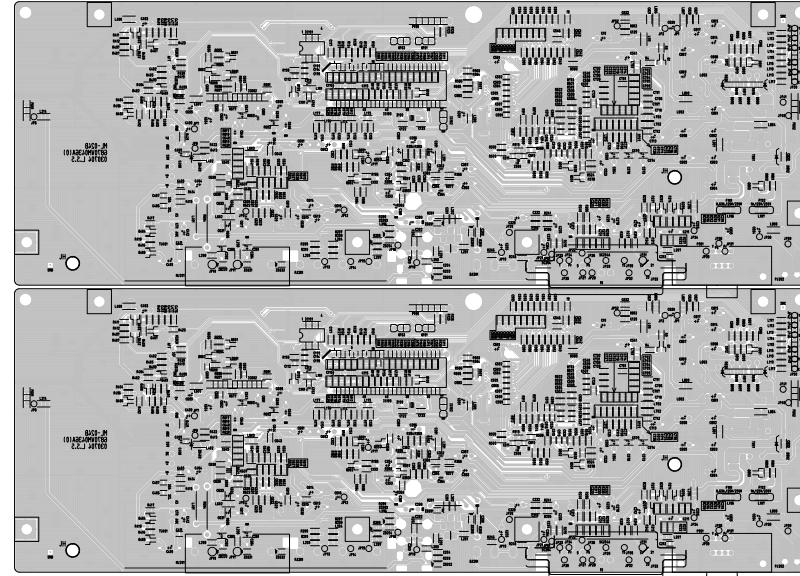
CIRCUIT DIAGRAM FOR ML024B CHASSIS



MAIN(TOP)



MAIN(BOTTOM)



CONTROL BOARD



POWER S/W

